Figure 1

MRVLCAFPEAMPSSNSRPPACLAPGALYLA   30

LLLHLSLSSQAGDRRPLPVDRAAGLKEKTL   60

ILLDV**STK**NPVRTVNENFLSLQLDPSIIHD   90

GWLDFL**SSK**RLVTLARGLSPAFLRFGGKRT   120

DFLQFQNLRNPAKSRGGPGPDYYLKNYEDD   150

IVRSDVALDKQKGCKIAQHPDVMLELQREK   180

AAQMHLVLLKEQFSNTYSNLILTEPNNYRT   210

MHGRAV***NGS***QLGKDYIQLKSLLQPIRIYSR   240

ASLYGPNIGRPRKNVIALLDGFMKVAGSTV   270

DAVTWQHCYIDGRVVKVMDFLKTRLLDTLS   300

DQIRKIQKVVNTYTPGKKIWLEGVVTTSAG   330

GTN***NLS***DSYAAGFLWLNTLGMLANQGIDVV   360

IRHSFFDHGYNHLVDQNFNPLPDYWLSLLY   390

KRLIGPKVLAVHVAGLQRKPRPGRVIRDKL   420

RIYAHCTNHHNHNYVRGSITLFIINLHR**SR**   450

KKIKLAG**TLR**DKLVHQYLLQPYGQEGLKSK   480

SVQLNGQPLVMVDDGTLPELKPRPLRAGRT   510

LVIPPVTMGFFVVKNVNALACRYR   534

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Figure 2A

```
HEPI    --MLLRSKPALP-----PP------LMLLLGPLGPLSPGALPRPA------QAQDV
HEPII   MRVLCAFPEAMPSSNSRPPACLAPGALYLALLLHLSLSSSQAGDRRPLPVDRAAGLKEKTL
          :*   *  *:*            **     * * * *  *   **      : : :

HEPI    VDLDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILLGSPKLRTLARGLSPAYLRFGGTK
HEPII   ILLDVSTKNPVRTVNENFLSLQLDPSIIHDG-WLDFLSSKRLVTLARGLSPAFLRFGGKR
        : **.*.::: *. :* .....:*:.: *   :* .: .** :* ********.:*****.:

HEPI    TDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKLRLEWPYQEQLLLREHYQK
HEPII   TDFLQFQNLRN---PAKSR-----------GGPGPDYYLKNYEDDIVRSDVALDK--QK
        **** *:  :   .:             *  : ** * *  : .:::* *  : *   **

HEPI    KFKNSTYSRSSVDVLYTFANCSGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNI
HEPII   GCKIAQHP----DVMLELQREK------AAQMHLVLLKEQFSNTYSNLIL---T------
        . .:  :     **:* *.:.:      *  :.:::*: : :: :*:*

HEPI    SWELGNEPNSFLKKADIFINGSQLGEDFIQLHKLLRKS-TFKNAKLYGPDVGQPRRKTAK
HEPII   ---E---PNNYRTMHGRAVNGSQLGKDYIQLKSLLQPIRIYSRASLYGPNIGRPRKNVIA
           *     **.:    .:  ****:* :.**: :.**  . :  ***:::*.**:*:::.

HEPI    MLKSFLKAGGEVIDSVTMHHYYLNGRTATKEDFLNPDVLDIFISSVQKVFQVVESTRPGK
HEPII   LLDGFMKVAGSTVDAVTWQHCYIDGRVVKVMDFLKTRLLDTLSDQIRKIQKVVNTYTPGK
        :*  *:*.*  :* :.:** :.:  :* ..: :  *** : .  :.* : .*:.:**
```
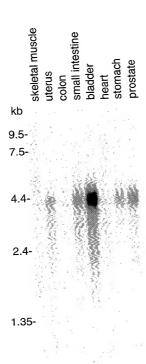
Figure 2B

```
HEPI    KVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARMGIEVVMRQVFFGAGNYHLVDEN
HEPII   KIWLEGVVTTSAGGTNNLSDSYAAGFLWNTLGMLANQGIDVVIRHSFFDHGYNHLVDQN
        *:*:       ::   :: .***::****:.**: *. *. **::**:*: ** . * ***:.:*

HEPI    FDPLPDYWLSLLFKKLVGTKVLMASVQGSKRR----------KLRVYLHCTNTDNPRYKEG
HEPII   FNPLPDYWLSLLYKRLIGPKVLAVHVAGLQRKPRPGRVIRDKLRIYAHCTNHHNHNYVRG
        *:*********** *:*:.* **    * .:*:           ***:.* ***** * . .* .

HEPI    DLTLYAINLHNVTKYLRLPYPFSNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTL
HEPII   SITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYGQEGLKSKSVQLNGQPLVMVDDGTL
        .:    *    :: .*   * ..: .: * *.:****: .* . **** ******* .* **** **

HEPI    PPLMEKPLRPGSSLGLPAFSYSFFVIRNAKVAACI--
HEPII   PELKPRPLRAGRTLVIPPVTMGFFVVKNVNALACRYR
        * *  .:****.  .*: .:*:.. *. ****:.::.. **
```

Figure 3

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